Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITYBE SEMESTER- 7th EXAMINATION – SUMMER 2015

Subject code:172107		Date:06/05/2015	
Subj	ect N	Name: Surface Coating Technology	
Γime: 02.30PM-05.00PM			Total Marks: 70
Instructions:			
	1.	Attempt all questions.	
	2.	Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Discuss the importance of surface coating technology.	07
	(b)	Discuss carburising process in detail.	07
Q.2	(a)	What do you understand by pickling? Write note on pickling.	07
	(b)	Explain chemical vapour deposition method. OR	07
	(b)	Discuss physical vapour deposition method in detail.	07
Q.3	(a)	<u> </u>	07
	(b)	Discuss the factors affecting hot dipping process. OR	07
Q.3	(a)	What is phosphating? Give its types. Discuss theory of phosphating.	07
	(b)	Discuss different tests of phosphating.	07
Q.4	(a)	· · · · · · · · · · · · · · · · · · ·	07
	(b)	Discuss plasma spray coating technique in detail with its application.	07
		OR	. –
Q.4	(a)	Discuss ion implantation technique in detail with its application.	07
Q.4	(b)	Explain the process of shot blasting with its advantages.	07
Q.5	(a)	What is anodizing? Discuss anodizing process in detail.	07
	(b)	Discuss the sputtering technique. OR	07
Q.5	(a)	Explain electroplating process.	07
-	(b)	Discuss chromating process and properties of coating.	07
